

## CLAIMS

1. A non-contact IC system comprising an antenna coil, an IC module, and a battery, wherein said non-contact IC system receives electric power and communication information via radio waves received by said antenna coil, said non-contact IC system further comprising:

an electric power detection means for detecting the electric power supplied via said antenna coil; and

a control means for controlling a drive power supply to said IC module based on the results of detection by said electric power detection means.

2. A non-contact IC system comprising an antenna coil, an IC module, and a battery, wherein said non-contact IC system receives electric power and communication information via radio waves received by said antenna coil, said non-contact IC system further comprising:

a switch for supplying electric power to said IC module; and

a control means for controlling a drive power supply to said IC module in accordance with a change in the state of said switch.

3. The non-contact IC system according to claim 1 or 2, comprising a communication state detection means for detecting the communication state of said IC module, wherein said control means controls the drive power supply to said IC module based on the results of detection by said communication state detection means.

4. The non-contact IC system according to claim 1, comprising a switch for supplying electric power to said IC module, wherein said control means controls the drive power supply to said IC module in accordance with a change in the state of said switch.

5. The non-contact IC system according to claim 1, or 2, comprising:
- an interface comprising said antenna coil and said IC module; and
  - a central arithmetic processing unit for performing various controls based on information from said interface,
- wherein said central arithmetic processing unit controls the drive power supply to said control means.
6. The non-contact IC system according to claim 1 or 2, wherein said battery is provided with a regulator for supplying a predetermined drive power to said IC module.
7. The non-contact IC system according to any one of claims 1 to 6, wherein said IC module receives electric power and communication information from an IC card reader/writer, using electromagnetic waves as a medium.
8. A non-contact IC system comprising an antenna coil, an IC module for performing communication via said antenna coil, and a battery for providing electric power to said IC module, wherein said non-contact IC system receives electric power and communication information via radio waves received by said antenna coil, said non-contact IC system further comprising:
- an electric power detection means for detecting the electric power supplied via said antenna coil; and
  - a control means for initiating the supply of electric power to said IC module from said battery in response to the detection of electric power by said electric power detection means.
9. The non-contact IC system according to claim 8, wherein said control means stops supplying electric power to said IC module from said battery when electric

power ceases to be detected after said detection of electric power.

10. A mobile terminal comprising the non-contact IC system according to any one of claims 1 to 9.